

+

79
(08-00)
51-0031
MERCE

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

09/28/01

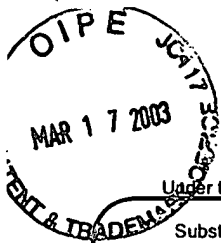
[illegible][illegible]

Examiner Signature		Date Considered	8/27/03
-----------------------	---	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (02-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

C mplete if Kn wn

Application Number	09/966,951
Filing Date	SEPTEMBER 28, 2001
First Named Inventor	L. P. FRIEDER, JR.
Art Unit	1762
Examiner Name	UNKNOWN
Attorney Docket Number	101-34

RECEIVED
MAR 19 2003
GROUP 1700**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JTA		US- 3,424,890	01/ 28/ 1969	L. J. VAN RUYVEN	
		US- 3,705,043	12/ 05/ 1972	DANIEL M. ZABIAK	
		US- 4,069,080	01/ 17/ 1978	OSBORNE	
		US- 4,156,626	05/ 29/ 1979	SOUDER	
		US- 4,424,435	01/ 03/ 1984	BARNES, JR.	
		US- 4,606,859	08/ 19/ 1986	DUGGAN ET AL.	
		US- 4,657,345	04/ 14/ 1987	GORDON	
		US- 4,879,450	11/ 07/ 1989	VALETIN ET AL.	
		US- 4,892,584	01/ 09/ 1990	CHAPMAN	
		US- 4,906,320	03/ 06/ 1990	POWERS	
		US- 4,969,969	11/ 13/ 1990	POWERS	
		US- 5,005,926	04/ 09/ 1991	SPIELBERGER	
		US- 5,093,147	03/ 03/ 1992	ANDRUS ET AL.	
		US- 5,113,479	05/ 12/ 1992	ANDERSON ET AL.	
		US- 5,252,262	10/ 12/ 1993	PATEL	
		US- 5,279,693	01/ 18/ 1994	ROBINSON ET AL.	
		US- 5,501,759	03/ 26/ 1996	FORMAN	
		US- 5,833,743	11/ 10/ 1998	ELWAKIL	
JTA		US- 5,837,042	11/ 17/ 1998	LENT ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JTA		DE 162922	06/28/1966	RECHTSANWALTE		
JTA		EP 0 159 169	10/23/1985	TERASAWA		
		EP 0 282 181	09/14/1988	STARK,		
		EP 0 483 569	05/06/1992	FISHMAN, UDL		
		JP 8230043	09/10/1996	SHINDO ET AL.	ABSTR TRANSL	
JTA		JP 6298828	10/25/1994	TOMITA	ABSTR TRANSL	

Examiner
SignatureDate
Considered

8/27/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	09/966,951
Filing Date	SEPTEMBER 28, 2001
First Named Inventor	L. P. FRIEDER. JR.
Art Unit	1762
Examiner Name	UNKNOWN
Attorney Docket Number	101-34

RECEIVED
MAR 19 2003
GROUP 1700**U.S. PATENT DOCUMENTS**

Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JTH		US- 5.843.265	12/ 01/ 1998	GRIMM	
		US- 5.897.694	04/ 27/ 1999	WOOLF	
		US- 5.893.959	04/ 13/ 1999	MUELLICH	
		US- 5.990.197	11/ 23/ 1999	ESCANO ET AL.	
		US- 6.077.377	06/ 20/ 2000	BENTZ ET AL.	
		US- 6.010.564	01/ 04/ 2000	ZHU ET AL.	
		US- 6.099.625	04/ 08/ 2000	BRADBURY ET AL.	
		US- 6.117.613	09/ 12/ 2000	KAWAUCHI ET AL.	
		US- 6.136.079	10/ 24/ 2000	EVANS ET AL.	
		US- 6.149.719	11/ 21/ 2000	HOULE	
		US- 6.174.356	01/ 16/ 2001	EVANS ET AL.	
		US- 6.183.549	02/ 06/ 2001	WIGHT	
JTH		US- 6.248.161	06/ 19/ 2001	NGUYEN ET AL.	
		US- 6.329.635	12/ 11/ 2001	LEONG ET AL.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JTH		JP 62142092	06/25/1987	USHIKI	ABSTR TRANS	
		JP 9220785	08/26/1997	NEZAKI	ABSTR TRANS	
JTH		WO 98/02294	01/22/1998	WOOD, JOHN		
		WO 00/20157	04/13/2000	THE WELDING INST		
		WO 01/07524	02/01/2001	AVECIA LIMITED		

Examiner
Signature

JTH A

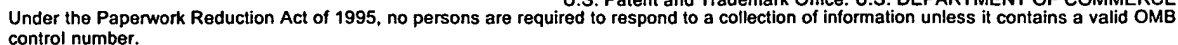
Date
Considered

8/27/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

Complete if Known

(use as many sheets as necessary)

Sheet	3	of	3
-------	---	----	---

Application Number	09/966,951
Filing Date	SEPTEMBER 26, 2001
First Named Inventor	L. P. FRIEDER, JR.
Group Art Unit	1762
Examiner Name	UNKNOWN
Attorney Docket Number	101-34

[illegible]

**Examiner
Signature**

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.